

Amendments to the Drawings:

The attached replacement drawing sheets make changes to Figs. 1 and 2, and replaces the original sheets with Figs. 1 and 2.

Attachment: Replacement Sheets

REMARKS

Claims 1-23 are pending in this application. By this Amendment, claims 1, 7, 13, 15, and 21 are amended, claims 22 and 23 are added and the drawings are corrected.

Reconsideration in view of the above amendments and the following remarks is respectfully requested.

Applicants appreciate the courtesies shown to Applicants' representatives by Examiner MonBleau in the January 4, 2006 personal interview. Applicants' separate record of the substance of the interview is incorporated into the following remarks.

I. Objection to the Drawings

The Office Action objects to the drawings because the reference numeral 48 in the drawings is not described in the specification. Reference numeral 48 has been deleted from the drawings to obviate the objection. Accordingly, withdrawal of the objection to the drawings is respectfully requested.

II. Rejection Under 35 U.S.C. §112, Second Paragraph

The Office Action rejects claims 5 and 19 under 35 U.S.C. §112, second paragraph because the phrase "a transparent substrate on which the semiconductor layer and the first electrode are disposed," is inconsistent with the drawings.

As mentioned in the January 4 Interview Summary, the Examiner and Applicants' representatives discussed the §112, second paragraph, rejection of claims 5 and 19. Following the discussion, the Examiner agreed that the claim language is consistent with the specification and is not indefinite. Accordingly, withdrawal of the rejection under 35 U.S.C. §112, second paragraph is respectfully requested.

III. The Claims Define Patentable Subject Matter

The Office Action rejects claims 1, 3 and 5 under 35 U.S.C. §102(e) over Suzuki (U.S. Patent Application Publication No. 2002/0043613); rejects claims 1-3, 5-17 and 19-21 under 35 U.S.C. §103(a) over Hsieh (U.S. Patent No. 6,649,834); and rejects claims 4 and 18 under 35 U.S.C. §103(a) over Hsieh in view of Oyoshi (JP 7-38138). The rejections are respectfully traversed.

Neither Suzuki nor Hsieh, individually or in combination, discloses or suggests the second electrode extending through the insulative substrate, as recited in independent claim 1, and similarly recited in independent claim 15.

As shown in Figs. 1 and 2 of Suzuki, the electrode 11, which the Office Action associates with the claimed second electrode, is formed around the substrate 10. Likewise, as shown in Fig. 2 of Hsieh, the sheet metal 30, which the Office Action associates with the claimed second electrode, is formed around the molded body 50.

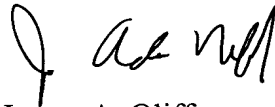
Oyoshi does not compensate for the above-noted deficiencies of Suzuki and Hsieh. Therefore, independent claims 1 and 15 define patentable subject matter. Claims 2-14 and 16-23 depend from one of independent claims 1 and 15, and therefore also define patentable subject matter as well as for the other features they recite. Accordingly, withdrawal of the rejection under 35 U.S.C. §102(e) and 35 U.S.C. §103(a) is respectfully requested.

IV. Conclusion

In view of the foregoing, it is respectfully submitted that this application is in condition for allowance. Favorable reconsideration and prompt allowance of claims 1-23 are earnestly solicited.

Should the Examiner believe that anything further would be desirable in order to place this application in even better condition for allowance, the Examiner is invited to contact the undersigned at the telephone number set forth below.

Respectfully submitted,



James A. Oliff
Registration No. 27,075

J. Adam Neff
Registration No. 41,218

JAO:JMH

Date: January 17, 2005

OLIFF & BERRIDGE, PLC
P.O. Box 19928
Alexandria, Virginia 22320
Telephone: (703) 836-6400

<p>DEPOSIT ACCOUNT USE AUTHORIZATION Please grant any extension necessary for entry; Charge any fee due to our Deposit Account No. 15-0461</p>
--